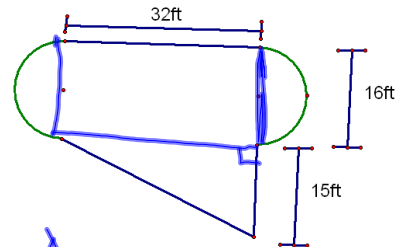
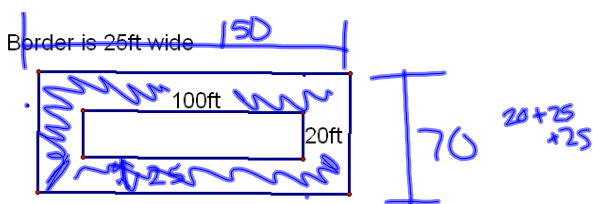


11.4 Areas of Irregular Figures



$$A_{\text{Rect}} + A_{\Delta} + A_{\text{Circle}} \\ 32 \cdot 16 + \frac{1}{2} 32 \cdot 15 + 64\pi \approx 953.1 \text{ ft}^2$$

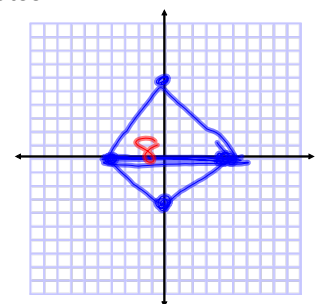


Find the area of the border.

$$A_{\text{Lg}} - A_{\text{Sm}} \\ 150 \cdot 70 - 100 \cdot 20 = 8500 \text{ ft}^2$$

Find the area of a quadrilateral with the following coordinates:

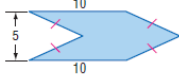
(-4, 0)
(0, 6)
(4, 0)
(0, -3)




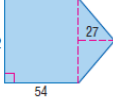
$$\frac{1}{2} 8 \cdot 6 + \frac{1}{2} 8 \cdot 3 \\ = 24 + 12 \\ = 36 \text{ h}^2$$

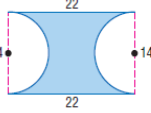
Hw
p619-620
8-18, 20
Not 10, 12, 16

Find the area of each figure. Round to the nearest tenth if necessary.

8. 

9. 

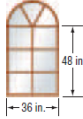
11. 

13. 

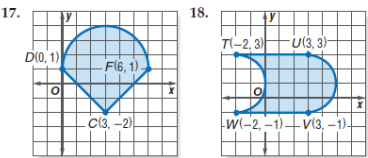
WINDOWS For Exercises 14 and 15, use the following information.
Mr. Cortez needs to replace this window in his house. The window panes are rectangles and sectors.

14. Find the perimeter of the window.

15. Find the area of the window.



COORDINATE GEOMETRY Find the area of each figure. Round to the nearest tenth if necessary.



COORDINATE GEOMETRY The vertices of an irregular figure are given. Find the area of each figure.

20. $T(-4, -2), U(-2, 2), V(3, 4), W(3, -2)$